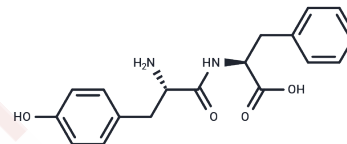


## H-Tyr-Phe-OH

## Chemical Properties

CAS No. :	17355-11-2
Formula:	C <sub>18</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	328.36
Storage:	Store under nitrogen Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	H-Tyr-Phe-OH(L-Tyrosyl-L-phenylalanine) is a dipeptide/polypeptide composed of tyrosine and phenylalanine that inhibits the activity of the angiotensin-converting enzyme (ACE) and has oral activity. It can be used as a biomarker for the study of thyroid nodules and also exhibits xanthine oxidase inhibitory (uric acid lowering) activity and acts as a regulator of IL-8 production by neutrophil-like cells.
Targets(IC50)	Angiotensin-converting Enzyme (ACE),Xanthine Oxidase

## Solubility Information

Solubility	DMSO: 2 mg/mL (6.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0454 mL	15.2272 mL	30.4544 mL
5 mM	0.6091 mL	3.0454 mL	6.0909 mL
10 mM	0.3045 mL	1.5227 mL	3.0454 mL
50 mM	0.0609 mL	0.3045 mL	0.6091 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Zhu Wei, et al. Biomarker containing keratin type II cytoskeleton 1b for differentiating benign thyroid nodules and thyroid cancer: China, CN114264828A[P]. 2022-04-01.

Mao Xiangchao, et al. Method for preparing cod fish peptide with xanthine oxidase inhibitory activity: China, CN113005166A[P]. 2021-06-22.

Hsueh PC, et al. Metabolomic profiling of parapneumonic effusion reveals a regulatory role of dipeptides in interleukin-8 production in neutrophil-like cells. Anal Chim Acta. 2020 Sep 1;1128:238-250.

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